Claims

Claim	5
[c1]	A power control management system comprising: at least one intelligent end device (IED); a control computer comprising an Ethernet server configured to create and encapsulate messages intended for said IEDs, in an industry standard format; and an Ethernet gateway configured to communicate with said server and transmit messages to said IEDs.
[c2]	A power control system according to Claim 1 wherein said server further configured to encapsulate messages with a TCP/IP Ethernet header and footer.
[c3]	A power control system according to Claim 2 wherein said gateway further configured to extract the TCP/IP Ethernet header and footer from the encapsulated messages.
[c4]	A power control system according to Claim 3 wherein said gateway further configured to transmit messages to at least one IED.
[c5]	A power control system according to Claim 1 wherein said gateway further configured to encapsulate messages returned from said IEDs with an industry standard header and footer for transmission to said Ethernet server.
[c6]	A power control management system according to Claim 5 wherein the messages are encapsulated with a TCP/IP Ethernet header and footer.
[c7]	A power control management system according to Claim 1 wherein said server is further configured to act as a communications server for other programs resident in an applications layer.
[c8]	A power control system according to Claim 1 further comprising at least one IED configured with said Ethernet gateway.
[c9]	A method for communicating with intelligent end devices (IEDs) in a power control management system including at least one IED, an Ethernet gateway,

and a control computer including an Ethernet server, said method comprising the steps of: electrically connecting the Ethernet gateway to the Ethernet server; configuring the server to create and encapsulate messages intended for IEDs in an industry standard format; configuring the gateway to remove the encapsulation from received messages for transmission to the IEDs; and transmitting the messages to the IEDs.

- [c10] A method according to Claim 9 wherein said step of configuring the server to create and encapsulate messages comprises the step of encapsulating messages with a TCP/IP Ethernet header and footer.
- [c1] A method according to Claim 10 wherein said step of configuring the gateway to remove the encapsulation from received messages comprises the step of configuring the gateway to extract the TCP/IP Ethernet header and footer from the encapsulated messages.
- [c12] A method according to Claim 11 further comprising the steps of:
 configuring the gateway to encapsulate messages returned from the IEDs
 with an industry standard header and footer; and
 transmitting the encapsulated messages to the Ethernet server.
- [c13] A method according to Claim 12 wherein said step of configuring the gateway comprises the step of encapsulating the messages with a TCP/IP Ethernet header and footer.
- [c14] A method according to Claim 9 further comprising the step of configuring the Ethernet server to act as a communications server for other programs resident in an applications layer.
- [c15] A computer programmed to create and encapsulate messages in an industry standard format, said computer further programmed to function as an Ethernet server for transmission of the messages.

